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DEPT OF TRANSPORTATION

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SUBJ: NHTSA NCAP ROLLOVER
MEASUREMENT DATA

FROM:  M. BYRNE, NHTSA NPS-23

TO: D.O.T. DOCKET No. NHTSA-2000-8298 - 3

DATE: 19 JAN 2001

The attached data sheets report initial Static Stability Factor (SSF) and related measurement data from NHTSA's NCAP Rollover Rating program for model year 2001. Included are 26 data sheets covering 26 test vehicle make/models (one data sheet per test vehicle) which NHTSA has measured and rated to date for the Rollover Rating program. Additional data sheets will be made available as other vehicle make/models are measured and star ratings issued.

The NHTSA test procedures for vehicle SSF measurement are as follows:

- Test vehicles are configured with a 161 lb. surrogate occupant (dummy) in the driver's seating position and with full fuel tank. No additional occupants or cargo are used.
- Center of gravity height is measured using a Vehicle Inertia Measurement Facility (VIMF) as described in "The Design of a Vehicle Inertia Measurement Facility," Heydinger, G.J., et al; SAE paper 950309, February, 1995.
- Track width is measured with steering wheels aligned longitudinally and with the test vehicle at its nominal ride height. The value of "Average Track" is determined by averaging eight track width measurements, four at each axle, as follows:
 - Front axle:
 - A. Inside of left tire to outside of right tire, measured at front surface of tires;
 - B. Inside of left tire to outside of right tire, measured at rear surface of tires;
 - C. Outside of left tire to inside of right tire, measured at front surface of tires;
 - D. Outside of left tire to inside of right tire, measured at rear surface of tires.
 - Rear axle: measurements 'E' through 'H' are the same as 'A' through 'D', respectively, but at the rear axle.

The following abbreviations are used in the data sheets:

"FWD" means front wheel drive;
"AWD" means all wheel drive;
"RWD" means rear wheel drive;
"4X4" means four wheel drive;
"4X2" means two wheel drive.

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Ford Focus - Driver

YEAR: 2001
MAKE: Ford
MODEL: Focus SE
VIN: 1FAFP34P11W15####

DATE TESTED: 11/17/00
VIMF TEST NO.: 853

BODY STYLE AND TRIM: SE Model
LOAD: Driver
ENGINE SIZE AND TYPE: 2.0L I4
TRANSMISSION TYPE: Automatic
DRIVE: FWD
DOORS: 4 Door
FUEL: Full

OPTIONAL EQUIPMENT:

TIRE TYPE: Firestone Firehawk GTA 87T M+S
TIRE SIZE: P195/60R15

TIRE PRESSURE FRONT: 32 psi
TIRE PRESSURE REAR: 32 psi

TRACK FRONT: 58.2 inches
TRACK REAR: 58.0 inches
AVERAGE TRACK: 58.1 inches
WHEELBASE: 102.8 inches
ROOF HEIGHT: 57.8 inches

GVWR 3620 lb
FRONT GAWR 1971 lb
REAR GAWR 1745 lb

LEFT FRONT WEIGHT 893.7 lb
RIGHT FRONT WEIGHT 833.9 lb
LEFT REAR WEIGHT 572.9 lb
RIGHT REAR WEIGHT 560.2 lb
TOTAL WEIGHT 2860.7 lb

C.G. LONGITUDINAL 40.72 inches (From Front Axle)
C.G. LATERAL -0.74 inches (Negative Towards Driver's Side)

Track Width Measurements

Measurement	Value	Unit
Front A	58.20	inches
B	58.20	inches
C	58.20	inches
D	58.20	inches
Rear E	57.85	inches
F	58.15	inches
G	58.00	inches
H	57.90	inches

Wheelbase Measurements

Measurement	Value	Unit
Left Side	102.90	inches
Right Side	102.70	inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.33	0.000	0.00
Run #2	50.341	4.38	-0.039	21.80
Run #3	94.649	7.80	-0.080	21.82
Run #4	50.341	-3.67	0.011	21.85
Run #5	94.649	-7.09	0.043	21.88

AVERAGE C.G. HEIGHT 21.84

STATIC STABILITY FACTOR (SSF)

SSF = $T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.330

Chevrolet Cavalier - Driver

YEAR: 2001
MAKE: Chevrolet
MODEL: Cavalier
VIN: 1G1JC52431722####

DATE TESTED: 11/21/00
VIMF TEST NO.: 867

BODY STYLE AND TRIM:

LOAD: Driver

ENGINE SIZE AND TYPE: 2.2L I4

TRANSMISSION TYPE: Automatic

DRIVE: FWD

DOORS: 4 Door

FUEL: Full

OPTIONAL EQUIPMENT:

TIRE TYPE: Goodyear Conquest 90S

TIRE SIZE: P195/70R14

TIRE PRESSURE FRONT: 30 psi
TIRE PRESSURE REAR: 30 psi

TRACK FRONT: 57.7 inches
TRACK REAR: 56.8 inches
AVERAGE TRACK: 57.3 inches
WHEELBASE: 104.1 inches
ROOF HEIGHT: 55.6 inches

Track Width Measurements

Front A	57.70	inches
B	57.70	inches
C	57.70	inches
D	57.70	inches
Rear E	56.70	inches
F	56.90	inches
G	56.80	inches
H	56.80	inches

GVWR 3614 lb
FRONT GAWR 1979 lb
REAR GAWR 1635 lb

LEFT FRONT WEIGHT 916.1 lb
RIGHT FRONT WEIGHT 905.6 lb
LEFT REAR WEIGHT 552.2 lb
RIGHT REAR WEIGHT 476.7 lb
TOTAL WEIGHT 2850.6 lb

Wheelbase Measurements

Left Side 104.00 inches
Right Side 104.20 inches

C.G. LONGITUDINAL 37.57 inches (From Front Axle)
C.G. LATERAL -0.86 inches (Negative Towards Driver's Side)

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.22	0.000	0.00
Run #2	50.341	4.17	-0.033	21.13
Run #3	94.649	7.52	-0.081	21.14
Run #4	50.341	-3.71	0.034	21.11
Run #5	94.649	-7.07	0.078	21.17

AVERAGE C.G. HEIGHT 21.14

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.354

Honda Civic 4DR - Driver

YEAR: 2001
MAKE: Honda
MODEL: Civic EX
VIN: 1HGES26731L01####

DATE TESTED: 11/15/00
VIMF TEST NO.: 849

BODY STYLE AND TRIM: EX Model
LOAD: Driver
ENGINE SIZE AND TYPE: 1.7L I4
TRANSMISSION TYPE: Automatic
DRIVE: FWD
DOORS: 4 Door
FUEL: Full
OPTIONAL EQUIPMENT: Sun Roof

TIRE TYPE: Firestone FR690 86H M+S
TIRE SIZE: P185/65R15

TIRE PRESSURE FRONT: 30 psi
TIRE PRESSURE REAR: 30 psi

TRACK FRONT: 58.1 inches
TRACK REAR: 57.8 inches
AVERAGE TRACK: 58.0 inches
WHEELBASE: 103.2 inches
ROOF HEIGHT: 56.4 inches

Track Width Measurements

Front	A	58.00	inches
	B	58.10	inches
	C	58.10	inches
	D	58.10	inches
Rear	E	57.80	inches
	F	57.80	inches
	G	57.80	inches
	H	57.90	inches

GVWR 3485 lb
FRONT GAWR 1810 lb
REAR GAWR 1700 lb
LEFT FRONT WEIGHT 872.1 lb
RIGHT FRONT WEIGHT 797.7 lb
LEFT REAR WEIGHT 586.3 lb
RIGHT REAR WEIGHT 552.0 lb
TOTAL WEIGHT 2808.0 lb

Wheelbase Measurements

Left Side	103.10	inches
Right Side	103.20	inches

C.G. LONGITUDINAL 41.82 inches (From Front Axle)
C.G. LATERAL -1.12 inches (Negative Towards Driver's Side)

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.14	0.000	0.00
Run #2	50.341	4.03	-0.030	20.74
Run #3	104.532	8.04	-0.690	20.76
Run #4	50.341	-3.71	0.019	20.67
Run #5	104.532	-7.70	0.057	20.68

AVERAGE C.G. HEIGHT 20.71

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.399

Volkswagen Jetta - Driver

YEAR: 2001
MAKE: Volkswagen
MODEL: Jetta
VIN: 3VWSS29M81M07####

DATE TESTED: 12/07/00
VIMF TEST NO.: 894

BODY STYLE AND TRIM:

LOAD: Driver

ENGINE SIZE AND TYPE: 2.0L I4

TRANSMISSION TYPE: 5 Spd Manual

DRIVE: FWD

DOORS: 4 Door

FUEL: Full

OPTIONAL EQUIPMENT: Sun Roof

TIRE TYPE: Michelin Energy MXV4 Plus 91H M+S

TIRE SIZE: P195/65R15

TIRE PRESSURE FRONT: 26 psi

TIRE PRESSURE REAR: 26 psi

TRACK FRONT: 59.6 inches

TRACK REAR: 58.8 inches

AVERAGE TRACK: 59.2 inches

WHEELBASE: 99.4 inches

ROOF HEIGHT: 56.3 inches

GVWR 3815 lb

FRONT GAWR 1985 lb

REAR GAWR 1918 lb

LEFT FRONT WEIGHT 931.0 lb

RIGHT FRONT WEIGHT 865.1 lb

LEFT REAR WEIGHT 640.1 lb

RIGHT REAR WEIGHT 644.4 lb

TOTAL WEIGHT 3080.6 lb

C.G. LONGITUDINAL 41.43 inches (From Front Axle)

C.G. LATERAL -0.59 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A 59.60 inches

B 59.50 inches

C 59.50 inches

D 59.60 inches

Rear E 58.80 inches

F 58.70 inches

G 58.70 inches

H 58.80 inches

Wheelbase Measurements

Left Side 99.40 inches

Right Side 99.30 inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.26	0.000	0.00
Run #2	50.341	4.21	-0.029	21.64
Run #3	94.649	7.54	-0.060	21.58
Run #4	50.341	-3.68	0.018	21.68
Run #5	94.649	-7.03	0.052	21.66

AVERAGE C.G. HEIGHT 21.64

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.367

Chevrolet Impala - Driver

YEAR: 2001
MAKE: Chevrolet
MODEL: Impala
VIN: 2G1WF52E21918####

DATE TESTED: 12/05/00
VIMF TEST NO.: 886

BODY STYLE AND TRIM:

LOAD: Driver

ENGINE SIZE AND TYPE: 3.4L V6

TRANSMISSION TYPE: Automatic

DRIVE: FWD

DOORS: 4 Door

FUEL: Full

OPTIONAL EQUIPMENT:

TIRE TYPE: Uniroyal Tiger Paw 97S

TIRE SIZE: P225/60R16

TIRE PRESSURE FRONT: 30 psi

TIRE PRESSURE REAR: 30 psi

TRACK FRONT: 61.7 inches

TRACK REAR: 61.0 inches

AVERAGE TRACK: 61.3 inches

WHEELBASE: 110.4 inches

ROOF HEIGHT: 58.2 inches

GVWR 4545 lb

FRONT GAWR 2462 lb

REAR GAWR 2083 lb

LEFT FRONT WEIGHT 1126.3 lb

RIGHT FRONT WEIGHT 1086.2 lb

LEFT REAR WEIGHT 692.0 lb

RIGHT REAR WEIGHT 697.8 lb

TOTAL WEIGHT 3602.3 lb

C.G. LONGITUDINAL 42.59 inches (From Front Axle)

C.G. LATERAL -0.29 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A 61.70 inches

B 61.70 inches

C 61.70 inches

D 61.70 inches

Rear E 60.90 inches

F 61.00 inches

G 61.00 inches

H 61.00 inches

Wheelbase Measurements

Left Side 110.40 inches

Right Side 110.40 inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.15	0.000	0.00
Run #2	50.092	4.21	-0.053	22.48
Run #3	94.400	7.64	-0.098	22.51
Run #4	50.092	-3.85	0.033	22.48
Run #5	94.400	-7.33	0.101	22.50

AVERAGE C.G. HEIGHT 22.49

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.364

Ford Taurus - Driver

YEAR: 2001
MAKE: Ford
MODEL: Taurus SE
VIN: IFAFP53UXIGI3####

DATE TESTED: 11/17/00
VIMF TEST NO.: 857

BODY STYLE AND TRIM:

LOAD: Driver
ENGINE SIZE AND TYPE: 3.0L V6
TRANSMISSION TYPE: Automatic
DRIVE: FWD
DOORS: 4 Door
FUEL: Full

OPTIONAL EQUIPMENT:

TIRE TYPE: Continental Touring Contact AS 94T

TIRE SIZE: P215/60R16

TIRE PRESSURE FRONT: 30 psi

TIRE PRESSURE REAR: 30 psi

TRACK FRONT: 61.6 inches

TRACK REAR: 62.2 inches

AVERAGE TRACK: 61.9 inches

WHEELBASE: 108.2 inches

ROOF HEIGHT: 58.1 inches

GVWR 4684 lb

FRONT GAWR 2577 lb

REAR GAWR 2132 lb

LEFT FRONT WEIGHT 1118.1 lb

RIGHT FRONT WEIGHT 1075.6 lb

LEFT REAR WEIGHT 648.8 lb

RIGHT REAR WEIGHT 617.4 lb

TOTAL WEIGHT 3459.9 lb

C.G. LONGITUDINAL 39.58 inches (From Front Axle)

C.G. LATERAL -0.66 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A 61.45 inches

B 61.70 inches

C 61.50 inches

D 61.70 inches

Rear E 62.10 inches

F 62.15 inches

G 62.25 inches

H 62.15 inches

Wheelbase Measurements

Left Side 108.00 inches

Right Side 108.30 inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.15	0.000	0.00
Run #2	50.341	4.10	-0.050	21.72
Run #3	104.532	8.08	-0.086	21.65
Run #4	50.341	-3.72	0.024	21.71
Run #5	104.532	-7.76	0.076	21.71

AVERAGE C.G. HEIGHT 21.70

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.426

Honda Accord - Driver

YEAR: 2001
MAKE: Honda
MODEL: Accord EX
VIN: JHMC G56611C00####

DATE TESTED: 11/16/00
VIMF TEST NO.: 851

BODY STYLE AND TRIM: EX Model
LOAD: Driver
ENGINE SIZE AND TYPE: 2.3L I4
TRANSMISSION TYPE: Automatic
DRIVE: FWD
DOORS: 4 Door
FUEL: Full
OPTIONAL EQUIPMENT: Sun Roof

TIRE TYPE: Michelin Energy 89H M+S
TIRE SIZE: P195/65R15

TIRE PRESSURE FRONT: 30 psi
TIRE PRESSURE REAR: 30 psi

TRACK FRONT: 61.2 inches
TRACK REAR: 60.6 inches
AVERAGE TRACK: 60.9 inches
WHEELBASE: 106.9 inches
ROOF HEIGHT: 56.0 inches

GVWR 4080 lb
FRONT GAWR 2205 lb
REAR GAWR 1940 lb

LEFT FRONT WEIGHT 1024.6 lb
RIGHT FRONT WEIGHT 959.5 lb
LEFT REAR WEIGHT 668.1 lb
RIGHT REAR WEIGHT 650.4 lb
TOTAL WEIGHT 3302.6 lb

C.G. LONGITUDINAL 42.66 inches (From Front Axle)
C.G. LATERAL -0.76 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A	61.20	inches
B	61.20	inches
C	61.25	inches
D	61.15	inches
Rear E	60.60	inches
F	60.50	inches
G	60.60	inches
H	60.50	inches

Wheelbase Measurements

Left Side	106.80	inches
Right Side	106.90	inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	-0.09	0.000	0.00
Run #2	50.341	3.73	-0.039	20.91
Run #3	104.532	7.70	-0.094	20.95
Run #4	50.341	-3.85	0.009	21.08
Run #5	104.532	-7.80	0.063	21.02

AVERAGE C.G. HEIGHT 20.99

STATIC STABILITY FACTOR (SSF)

SSF = $T / (2 \times H)$ = AVERAGE TRACK / (2 x AVERAGE C.G. HEIGHT)

SSF 1.450

Chev. Blazer 4DR 4x2 - Driver

YEAR: 2001
MAKE: Chevrolet
MODEL: Blazer
VIN: 1GNCS13W71219####

DATE TESTED: 11/20/00
VIMF TEST NO.: 861

BODY STYLE AND TRIM:

LOAD: Driver
ENGINE SIZE AND TYPE: 4.3L V6
TRANSMISSION TYPE: Automatic
DRIVE: RWD
DOORS: 4 Door
FUEL: Full
OPTIONAL EQUIPMENT: Roof Rack

TIRE TYPE: Uniroyal Laredo

TIRE SIZE: P235/70R15

TIRE PRESSURE FRONT: 32 psi

TIRE PRESSURE REAR: 32 psi

TRACK FRONT: 54.6 inches

TRACK REAR: 54.8 inches

AVERAGE TRACK: 54.7 inches

WHEELBASE: 107.0 inches

ROOF HEIGHT: 65.6 inches

GVWR 5000 lb

FRONT GAWR 2500 lb

REAR GAWR 2800 lb

LEFT FRONT WEIGHT 1150.1 lb

RIGHT FRONT WEIGHT 1041.1 lb

LEFT REAR WEIGHT 946.7 lb

RIGHT REAR WEIGHT 911.5 lb

TOTAL WEIGHT 4049.4 lb

C.G. LONGITUDINAL 49.10 inches (From Front Axle)

C.G. LATERAL -0.97 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A 54.50 inches

B 54.70 inches

C 54.45 inches

D 54.60 inches

Rear E 54.70 inches

F 54.80 inches

G 54.75 inches

H 54.80 inches

Wheelbase Measurements

Left Side 106.80 inches

Right Side 107.20 inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.17	0.000	0.00
Run #2	40.209	4.16	-0.018	26.91
Run #3	84.517	8.38	-0.044	26.97
Run #4	40.209	-3.76	0.011	26.84
Run #5	84.517	-7.99	0.036	26.95

AVERAGE C.G. HEIGHT 26.92

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.015

Chev. Blazer 4X4 - Driver

YEAR: 2001
MAKE: Chevrolet
MODEL: Blazer 4X4
VIN: 1GNDT13W01220####

DATE TESTED: 01/03/00
VIMF TEST NO.: 927

BODY STYLE AND TRIM: LT model
LOAD: Driver
ENGINE SIZE AND TYPE: 4.3L V6
TRANSMISSION TYPE: Automatic
DRIVE: 4WD
DOORS: 4 Door
FUEL: Full
OPTIONAL EQUIPMENT: Roof Rack

TIRE TYPE: Uniroyal Laredo 102S M+S
TIRE SIZE: P235/70R15

TIRE PRESSURE FRONT: 32 psi
TIRE PRESSURE REAR: 32 psi

TRACK FRONT: 56.8 inches
TRACK REAR: 55.0 inches
AVERAGE TRACK: 55.9 inches
WHEELBASE: 107.0 inches
ROOF HEIGHT: 65.2 inches

GVWR 5350 lb
FRONT GAWR 2800 lb
REAR GAWR 2900 lb

LEFT FRONT WEIGHT 1261.9 lb
RIGHT FRONT WEIGHT 1143.5 lb
LEFT REAR WEIGHT 996.4 lb
RIGHT REAR WEIGHT 947.9 lb
TOTAL WEIGHT 4349.7 lb

C.G. LONGITUDINAL 47.83 inches (From Front Axle)
C.G. LATERAL -1.07 inches (Negative Towards Driver's Side)

Track Width Measurements

Front	A	56.80	inches
	B	56.70	inches
	C	56.70	inches
	D	56.80	inches
Rear	E	55.00	inches
	F	55.00	inches
	G	55.10	inches
	H	54.90	inches

Wheelbase Measurements

Left Side	107.00	inches
Right Side	107.00	inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.13	0.000	0.00
Run #2	40.209	4.01	-0.050	25.66
Run #3	84.517	8.18	-0.131	25.67
Run #4	40.209	-3.67	0.028	25.69
Run #5	84.517	-7.90	0.120	25.72

AVERAGE C.G. HEIGHT 25.69

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.088

Chevrolet Suburban 4x4 - Driver

YEAR: 2001
MAKE: Chevrolet
MODEL: Suburban
VIN: 1GNFK16T71J16####

DATE TESTED: 11/20/00
VIMF TEST NO.: 863

BODY STYLE AND TRIM:

LOAD: Driver
ENGINE SIZE AND TYPE: 5.3L V8
TRANSMISSION TYPE: Automatic
DRIVE: 4WD
DOORS: 4 Door
FUEL: Full
OPTIONAL EQUIPMENT: Roof Rack

TIRE TYPE: Firestone Wilderness LE 111S M/S

TIRE SIZE: P265/70R16

TIRE PRESSURE FRONT: 35 psi

TIRE PRESSURE REAR: 35 psi

TRACK FRONT: 65.1 inches

TRACK REAR: 66.1 inches

AVERAGE TRACK: 65.6 inches

WHEELBASE: 130.1 inches

ROOF HEIGHT: 74.3 inches

GVWR 7200 lb

FRONT GAWR 3600 lb

REAR GAWR 4000 lb

LEFT FRONT WEIGHT 1610.2 lb

RIGHT FRONT WEIGHT 1445.7 lb

LEFT REAR WEIGHT 1425.9 lb

RIGHT REAR WEIGHT 1355.7 lb

TOTAL WEIGHT 5837.5 lb

C.G. LONGITUDINAL 61.99 inches (From Front Axle)

C.G. LATERAL -1.32 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A 65.00 inches

B 65.10 inches

C 65.15 inches

D 65.15 inches

Rear E 66.10 inches

F 66.10 inches

G 66.10 inches

H 66.10 inches

Wheelbase Measurements

Left Side 130.10 inches

Right Side 130.10 inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	-0.19	0.000	0.00
Run #2	71.266	3.41	-0.045	28.71
Run #3	161.922	7.80	-0.115	28.84
Run #4	71.266	-3.71	0.021	28.75
Run #5	161.922	-8.06	0.101	28.75

AVERAGE C.G. HEIGHT 28.76

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.140

Chev. Tahoe 4DR 4x4 - Driver

YEAR: 2001
MAKE: Chevrolet
MODEL: Tahoe
VIN: 1GNEK13T71J17####

DATE TESTED: 11/21/00
VIMF TEST NO.: 865

BODY STYLE AND TRIM:

LOAD: Driver

ENGINE SIZE AND TYPE: 5.3L V8

TRANSMISSION TYPE: Automatic

DRIVE: 4WD

DOORS: 4 Door

FUEL: Full

OPTIONAL EQUIPMENT: Roof Rack, Sun Roof

TIRE TYPE: Firestone Wilderness LE 111S M/S

TIRE SIZE: P265/70R16

TIRE PRESSURE FRONT: 35 psi

TIRE PRESSURE REAR: 35 psi

TRACK FRONT: 65.1 inches

TRACK REAR: 66.1 inches

AVERAGE TRACK: 65.6 inches

WHEELBASE: 116.0 inches

ROOF HEIGHT: 75.3 inches

GVWR 6800 lb

FRONT GAWR 3600 lb

REAR GAWR 3750 lb

LEFT FRONT WEIGHT 1567.0 lb

RIGHT FRONT WEIGHT 1372.4 lb

LEFT REAR WEIGHT 1340.6 lb

RIGHT REAR WEIGHT 1301.9 lb

TOTAL WEIGHT 5581.9 lb

C.G. LONGITUDINAL 54.91 inches (From Front Axle)

C.G. LATERAL -1.37 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A 65.10 inches

B 65.10 inches

C 65.20 inches

D 65.00 inches

Rear E 66.10 inches

F 66.10 inches

G 66.10 inches

H 66.10 inches

Wheelbase Measurements

Left Side 116.10 inches

Right Side 115.90 inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	-0.15	0.000	0.00
Run #2	71.266	3.52	-0.054	28.70
Run #3	161.922	7.93	-0.129	28.73
Run #4	71.266	-3.77	0.032	28.88
Run #5	161.922	-8.24	0.128	28.87

AVERAGE C.G. HEIGHT 28.80

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.139

Chev. Tracker 4DR 4x2 - Driver

YEAR: 2001
MAKE: Chevrolet
MODEL: Tracker 4x2
VIN: 2CNBE63451692####

DATE TESTED: 12/05/00
VIMF TEST NO.: 884

BODY STYLE AND TRIM:

LOAD: Driver
ENGINE SIZE AND TYPE: 2.5L V6
TRANSMISSION TYPE: Automatic
DRIVE: RWD
DOORS: 4 Door
FUEL: Full
OPTIONAL EQUIPMENT: Roof Rack

TIRE TYPE: Goodyear Integrity 97S
TIRE SIZE: P215/70R15

TIRE PRESSURE FRONT: 26 psi
TIRE PRESSURE REAR: 26 psi

TRACK FRONT: 57.4 inches
TRACK REAR: 57.5 inches
AVERAGE TRACK: 57.5 inches
WHEELBASE: 97.7 inches
ROOF HEIGHT: 65.2 inches

GVWR 3990 lb
FRONT GAWR 1874 lb
REAR GAWR 2315 lb

LEFT FRONT WEIGHT 856.6 lb
RIGHT FRONT WEIGHT 825.5 lb
LEFT REAR WEIGHT 793.8 lb
RIGHT REAR WEIGHT 752.0 lb
TOTAL WEIGHT 3227.9 lb

C.G. LONGITUDINAL 46.79 inches (From Front Axle)
C.G. LATERAL -0.65 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A	57.50	inches
B	57.30	inches
C	57.40	inches
D	57.40	inches
Rear E	57.50	inches
F	57.50	inches
G	57.50	inches
H	57.50	inches

Wheelbase Measurements

Left Side	97.90	inches
Right Side	97.50	inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.28	0.000	0.00
Run #2	40.209	3.90	-0.042	24.77
Run #3	84.517	7.79	-0.122	24.77
Run #4	40.209	-3.25	0.010	24.81
Run #5	84.517	-7.11	0.073	24.79

AVERAGE C.G. HEIGHT 24.78

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.159

Chev. Tracker 4DR 4x4 - Driver

YEAR: 2001
 MAKE: Chevrolet
 MODEL: Tracker
 VIN: 2CNBJ13C71691####

DATE TESTED: 11/30/00
 VIMF TEST NO.: 872

BODY STYLE AND TRIM:

LOAD: Driver
 ENGINE SIZE AND TYPE: 2.0L I4
 TRANSMISSION TYPE: Automatic
 DRIVE: 4WD
 DOORS: 4 Door
 FUEL: Full
 OPTIONAL EQUIPMENT: Roof Rack

TIRE TYPE: Uniroyal Tiger Paw
 TIRE SIZE: P205/75R15

TIRE PRESSURE FRONT: 26 psi
 TIRE PRESSURE REAR: 26 psi

TRACK FRONT: 57.5 inches
 TRACK REAR: 57.5 inches
 AVERAGE TRACK: 57.5 inches
 WHEELBASE: 97.7 inches
 ROOF HEIGHT: 66.2 inches

Track Width Measurements

Front A	57.50	inches
B	57.40	inches
C	57.50	inches
D	57.40	inches
Rear E	57.40	inches
F	57.50	inches
G	57.50	inches
H	57.40	inches

GVWR 3924 lb
 FRONT GAWR 1852 lb
 REAR GAWR 2227 lb

LEFT FRONT WEIGHT 851.9 lb
 RIGHT FRONT WEIGHT 818.4 lb
 LEFT REAR WEIGHT 780.9 lb
 RIGHT REAR WEIGHT 749.8 lb
 TOTAL WEIGHT 3201.0 lb

Wheelbase Measurements

Left Side	97.70	inches
Right Side	97.70	inches

C.G. LONGITUDINAL 46.72 inches (From Front Axle)
 C.G. LATERAL -0.58 inches (Negative Towards Driver's Side)

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	-0.01	0.000	0.00
Run #2	40.209	3.71	-0.042	24.90
Run #3	64.256	5.88	-0.076	24.90
Run #4	40.209	-3.71	0.032	25.00
Run #5	64.256	-5.87	0.063	24.98

AVERAGE C.G. HEIGHT 24.95

STATIC STABILITY FACTOR (SSF)

SSF = $T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.152

Ford Expedition 4x2 - Driver

YEAR: 2001
MAKE: Ford
MODEL: Expedition
VIN: 1FMEU151L11A0####

DATE TESTED: 12/06/00
VIMF TEST NO.: 890

BODY STYLE AND TRIM: XLT - 8 Passenger

LOAD: Driver

ENGINE SIZE AND TYPE: 5.4L V8

TRANSMISSION TYPE: Automatic

DRIVE: RWD

DOORS: 4 Door

FUEL: Full

OPTIONAL EQUIPMENT: Roof Rack

TIRE TYPE: Firestone wilderness AT 109S M+S

TIRE SIZE: P255/70R16

TIRE PRESSURE FRONT: 30 psi

TIRE PRESSURE REAR: 35 psi

TRACK FRONT: 65.4 inches

TRACK REAR: 65.5 inches

AVERAGE TRACK: 65.5 inches

WHEELBASE: 119.3 inches

ROOF HEIGHT: 74.0 inches

GVWR 7000 lb

FRONT GAWR 3200 lb

REAR GAWR 4128 lb

LEFT FRONT WEIGHT 1389.8 lb

RIGHT FRONT WEIGHT 1275.6 lb

LEFT REAR WEIGHT 1318.2 lb

RIGHT REAR WEIGHT 1294.4 lb

TOTAL WEIGHT 5278.0 lb

C.G. LONGITUDINAL 59.03 inches (From Front Axle)

C.G. LATERAL -0.86 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A 65.30 inches

B 65.40 inches

C 65.50 inches

D 65.50 inches

Rear E 65.60 inches

F 65.50 inches

G 65.50 inches

H 65.50 inches

Wheelbase Measurements

Left Side 119.50 inches

Right Side 119.00 inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	-0.23	0.000	0.00
Run #2	71.266	3.56	-0.029	29.52
Run #3	151.790	7.61	-0.069	29.52
Run #4	71.266	-3.96	0.020	29.44
Run #5	151.790	-7.88	0.061	29.19

AVERAGE C.G. HEIGHT 29.42

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.113

Ford Explorer 4x4 - Driver

YEAR: 2001
MAKE: Ford
MODEL: Explorer
VIN: 1FMZU73E21ZA4####

DATE TESTED: 12/14/00
VIMF TEST NO.: 914

BODY STYLE AND TRIM: XLT Model
LOAD: Driver
ENGINE SIZE AND TYPE: 4.0L V6
TRANSMISSION TYPE: Automatic
DRIVE: 4WD
DOORS: 4 Door
FUEL: Full
OPTIONAL EQUIPMENT: Roof Rack

TIRE TYPE: Firestone Wilderness AT 105S M+S
TIRE SIZE: P235/75R15

TIRE PRESSURE FRONT: 30 psi
TIRE PRESSURE REAR: 30 psi

TRACK FRONT: 58.5 inches
TRACK REAR: 58.6 inches
AVERAGE TRACK: 58.6 inches
WHEELBASE: 111.8 inches
ROOF HEIGHT: 68.2 inches

Track Width Measurements

Front A	58.35	inches
B	58.60	inches
C	58.55	inches
D	58.50	inches
Rear E	58.60	inches
F	58.70	inches
G	58.50	inches
H	58.70	inches

GVWR 5340 lb
FRONT GAWR 2710 lb
REAR GAWR 2950 lb

LEFT FRONT WEIGHT 1281.6 lb
RIGHT FRONT WEIGHT 1089.3 lb
LEFT REAR WEIGHT 1029.1 lb
RIGHT REAR WEIGHT 1000.0 lb
TOTAL WEIGHT 4400.0 lb

Wheelbase Measurements

Left Side	111.80	inches
Right Side	111.70	inches

C.G. LONGITUDINAL 51.53 inches (From Front Axle)
C.G. LATERAL -1.47 inches (Negative Towards Driver's Side)

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	-0.36	0.000	0.00
Run #2	40.209	4.04	-0.064	27.76
Run #3	84.517	8.61	-0.151	27.62
Run #4	40.209	-4.55	0.044	27.48
Run #5	84.517	-9.11	0.171	27.27

AVERAGE C.G. HEIGHT 27.53

STATIC STABILITY FACTOR (SSF)

SSF = $T / (2 \times H)$ = AVERAGE TRACK / (2 x AVERAGE C.G. HEIGHT)

SSF 1.064

Honda CR-V FWD - Driver

YEAR: 2001
MAKE: Honda
MODEL: CR-V
VIN: JHLRD28411S00####

DATE TESTED: 11/17/00
VIMF TEST NO.: 855

BODY STYLE AND TRIM:

LOAD: Driver
ENGINE SIZE AND TYPE: 2.0L I4
TRANSMISSION TYPE: Automatic
DRIVE: FWD
DOORS: 4 Door
FUEL: Full

OPTIONAL EQUIPMENT:

TIRE TYPE: Bridgestone Dueler H/T 95S
TIRE SIZE: P205/70R15

TIRE PRESSURE FRONT: 26 psi
TIRE PRESSURE REAR: 26 psi

TRACK FRONT: 60.4 inches
TRACK REAR: 60.2 inches
AVERAGE TRACK: 60.3 inches
WHEELBASE: 103.3 inches
ROOF HEIGHT: 65.8 inches

GVWR 4165 lb
FRONT GAWR 2030 lb
REAR GAWR 2155 lb

LEFT FRONT WEIGHT 923.8 lb
RIGHT FRONT WEIGHT 877.7 lb
LEFT REAR WEIGHT 731.4 lb
RIGHT REAR WEIGHT 706.4 lb
TOTAL WEIGHT 3239.3 lb

C.G. LONGITUDINAL 45.85 inches (From Front Axle)
C.G. LATERAL -0.66 inches (Negative Towards Driver's Side)

Track Width Measurements

Location	Measurement	Value	Unit
Front	A	60.40	inches
	B	60.40	inches
	C	60.40	inches
	D	60.40	inches
Rear	E	60.20	inches
	F	60.20	inches
	G	60.20	inches
	H	60.20	inches

Wheelbase Measurements

Side	Measurement	Value	Unit
Left Side	Wheelbase	103.30	inches
Right Side	Wheelbase	103.30	inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.00	0.000	0.00
Run #2	40.209	3.70	-0.024	25.73
Run #3	84.517	7.62	-0.056	25.74
Run #4	40.209	-3.65	0.009	25.67
Run #5	84.517	-7.53	0.038	25.66

AVERAGE C.G. HEIGHT 25.70

STATIC STABILITY FACTOR (SSF)

SSF = $T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.173

Jeep Grand Cherokee 4x4 -Driver

YEAR: 2001
MAKE: Jeep
MODEL: Grand Cherokee
VIN: 1J4GW48S01C57####

DATE TESTED: 12/07/00
VIMF TEST NO.: 896

BODY STYLE AND TRIM: Laredo
LOAD: Driver
ENGINE SIZE AND TYPE: 4.0L I6
TRANSMISSION TYPE: Automatic
DRIVE: 4WD
DOORS: 4 Door
FUEL: Full
OPTIONAL EQUIPMENT: Roof Rack

TIRE TYPE: Goodyear Wrangler ST 104S M+S
TIRE SIZE: P225/75R16

TIRE PRESSURE FRONT: 33 psi
TIRE PRESSURE REAR: 33 psi

TRACK FRONT: 59.7 inches
TRACK REAR: 59.6 inches
AVERAGE TRACK: 59.6 inches
WHEELBASE: 105.9 inches
ROOF HEIGHT: 67.1 inches

Track Width Measurements

Front A	59.60	inches
B	59.70	inches
C	59.60	inches
D	59.70	inches
Rear E	59.50	inches
F	59.70	inches
G	59.50	inches
H	59.70	inches

GVWR 5400 lb
FRONT GAWR 2750 lb
REAR GAWR 2950 lb

LEFT FRONT WEIGHT 1193.6 lb
RIGHT FRONT WEIGHT 1124.4 lb
LEFT REAR WEIGHT 944.9 lb
RIGHT REAR WEIGHT 930.4 lb
TOTAL WEIGHT 4193.3 lb

Wheelbase Measurements

Left Side	105.90	inches
Right Side	105.90	inches

C.G. LONGITUDINAL 47.36 inches (From Front Axle)
C.G. LATERAL -0.60 inches (Negative Towards Driver's Side)

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	-0.35	0.000	0.00
Run #2	40.209	3.91	-0.053	26.98
Run #3	75.316	7.69	-0.157	26.99
Run #4	40.209	-4.60	0.064	26.93
Run #5	75.316	-8.40	0.191	26.89

AVERAGE C.G. HEIGHT 26.95

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.106

Mit. Montero Sport 4x4 - Driver

YEAR: 2001
MAKE: Mitsubishi
MODEL: Montero Sport
VIN: JA41T31H51P00####

DATE TESTED: 11/30/00
VIMF TEST NO.: 874

BODY STYLE AND TRIM: Sport
LOAD: Driver
ENGINE SIZE AND TYPE: 3.0L V6
TRANSMISSION TYPE: Automatic
DRIVE: 4WD
DOORS: 4 Door
FUEL: Full
OPTIONAL EQUIPMENT: Roof Rack

TIRE TYPE: Yokohama Geolander G039 109S M+S
TIRE SIZE: P225/70R16

TIRE PRESSURE FRONT: 26 psi
TIRE PRESSURE REAR: 26 psi

TRACK FRONT: 57.9 inches
TRACK REAR: 58.5 inches
AVERAGE TRACK: 58.2 inches
WHEELBASE: 107.5 inches
ROOF HEIGHT: 68.0 inches

Track Width Measurements

Front A	57.90	inches
B	58.00	inches
C	57.80	inches
D	58.00	inches
Rear E	58.50	inches
F	58.40	inches
G	58.50	inches
H	58.40	inches

GVWR 5350 lb
FRONT GAWR 2645 lb
REAR GAWR 3525 lb

LEFT FRONT WEIGHT 1245.0 lb
RIGHT FRONT WEIGHT 1131.2 lb
LEFT REAR WEIGHT 1046.7 lb
RIGHT REAR WEIGHT 957.0 lb
TOTAL WEIGHT 4379.9 lb

Wheelbase Measurements

Left Side	107.60	inches
Right Side	107.40	inches

C.G. LONGITUDINAL 49.18 inches (From Front Axle)
C.G. LATERAL -1.35 inches (Negative Towards Driver's Side)

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.09	0.000	0.00
Run #2	40.209	4.08	-0.059	26.30
Run #3	84.517	8.31	-0.134	26.31
Run #4	40.209	-3.71	0.013	26.33
Run #5	84.517	-7.98	0.093	26.35

AVERAGE C.G. HEIGHT 26.32

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.105

Chevrolet S-10 4x2 - Driver

YEAR: 2001
MAKE: Chevrolet
MODEL: S-10
VIN: 1GCCS19W01817####

DATE TESTED: 12/04/00
VIMF TEST NO.: 882

BODY STYLE AND TRIM: LS Fleetside Extended Cab
LOAD: Driver
ENGINE SIZE AND TYPE: 4.3L V6
TRANSMISSION TYPE: Automatic
DRIVE: RWD
DOORS: 3 Door
FUEL: Full
OPTIONAL EQUIPMENT:

TIRE TYPE: Uniroyal Tiger Paw 97S
TIRE SIZE: P205/75R15

TIRE PRESSURE FRONT: 35 psi
TIRE PRESSURE REAR: 35 psi

TRACK FRONT: 54.7 inches
TRACK REAR: 54.7 inches
AVERAGE TRACK: 54.7 inches
WHEELBASE: 122.7 inches
ROOF HEIGHT: 62.6 inches

Track Width Measurements

Front A	54.70	inches
B	54.80	inches
C	54.60	inches
D	54.80	inches
Rear E	54.60	inches
F	54.60	inches
G	54.70	inches
H	54.70	inches

GVWR 4600 lb
FRONT GAWR 2500 lb
REAR GAWR 2700 lb

LEFT FRONT WEIGHT 1183.3 lb
RIGHT FRONT WEIGHT 1058.0 lb
LEFT REAR WEIGHT 755.0 lb
RIGHT REAR WEIGHT 716.1 lb
TOTAL WEIGHT 3712.4 lb

Wheelbase Measurements

Left Side	122.90	inches
Right Side	122.50	inches

C.G. LONGITUDINAL 48.62 inches (From Front Axle)
C.G. LATERAL -1.21 inches (Negative Towards Driver's Side)

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.17	0.000	0.00
Run #2	40.209	3.53	-0.029	23.86
Run #3	94.649	7.92	-0.088	23.84
Run #4	40.209	-3.13	0.009	23.91
Run #5	94.649	-7.50	0.066	23.85

AVERAGE C.G. HEIGHT 23.87

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.146

Chevrolet S-10 4x4 - Driver

YEAR: 2001
MAKE: Chevrolet
MODEL: S-10
VIN: 1GCDT19W31816####

DATE TESTED: 12/04/00
VIMF TEST NO.: 880

BODY STYLE AND TRIM: LS Fleetside Extended Cab

LOAD: Driver

ENGINE SIZE AND TYPE: 4.3L V6

TRANSMISSION TYPE: Automatic

DRIVE: 4WD

DOORS: 3 Door

FUEL: Full

OPTIONAL EQUIPMENT:

TIRE TYPE: Uniroyal Laredo 102S M+S

TIRE SIZE: P235/70R15

TIRE PRESSURE FRONT: 32 psi

TIRE PRESSURE REAR: 32 psi

TRACK FRONT: 57.0 inches

TRACK REAR: 55.0 inches

AVERAGE TRACK: 56.0 inches

WHEELBASE: 123.0 inches

ROOF HEIGHT: 64.4 inches

GVWR 5150 lb

FRONT GAWR 2800 lb

REAR GAWR 2700 lb

LEFT FRONT WEIGHT 1320.8 lb

RIGHT FRONT WEIGHT 1153.2 lb

LEFT REAR WEIGHT 789.2 lb

RIGHT REAR WEIGHT 773.0 lb

TOTAL WEIGHT 4036.2 lb

C.G. LONGITUDINAL 47.61 inches (From Front Axle)

C.G. LATERAL -1.28 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A 57.00 inches

B 57.00 inches

C 56.90 inches

D 57.10 inches

Rear E 55.00 inches

F 55.00 inches

G 55.00 inches

H 55.00 inches

Wheelbase Measurements

Left Side 123.00 inches

Right Side 123.00 inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	-0.31	0.000	0.00
Run #2	50.341	3.98	-0.029	24.50
Run #3	94.649	7.58	-0.061	24.49
Run #4	50.341	-4.52	0.020	24.49
Run #5	94.649	-8.14	0.058	24.52

AVERAGE C.G. HEIGHT 24.50

STATIC STABILITY FACTOR (SSF)

SSF = $T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.143

Chev. Silverado 4x2 - Driver

YEAR: 2001
 MAKE: Chevrolet
 MODEL: Silverado
 VIN: 2GCEC19V31122####

DATE TESTED: 12/01/00
 VIMF TEST NO.: 878

BODY STYLE AND TRIM: LS 1500 2WD Extended Cab

LOAD: Driver

ENGINE SIZE AND TYPE: 4.8L V8

TRANSMISSION TYPE: Automatic

DRIVE: 2WD

DOORS: 4 Door

FUEL: Full

OPTIONAL EQUIPMENT:

TIRE TYPE: Goodyear Wrangler ST

TIRE SIZE: P235/75R16

TIRE PRESSURE FRONT: 35 psi

TIRE PRESSURE REAR: 35 psi

TRACK FRONT: 64.9 inches

TRACK REAR: 66.2 inches

AVERAGE TRACK: 65.6 inches

WHEELBASE: 143.9 inches

ROOF HEIGHT: 70.6 inches

GVWR 6200 lb

FRONT GAWR 3600 lb

REAR GAWR 3686 lb

LEFT FRONT WEIGHT 1508.5 lb

RIGHT FRONT WEIGHT 1357.9 lb

LEFT REAR WEIGHT 1033.0 lb

RIGHT REAR WEIGHT 959.7 lb

TOTAL WEIGHT 4859.1 lb

C.G. LONGITUDINAL 58.99 inches (From Front Axle)

C.G. LATERAL -1.51 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A 64.95 inches

B 64.85 inches

C 65.00 inches

D 64.90 inches

Rear E 66.25 inches

F 66.20 inches

G 66.15 inches

H 66.20 inches

Wheelbase Measurements

Left Side 143.80 inches

Right Side 143.90 inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	-0.18	0.000	0.00
Run #2	85.756	3.85	-0.039	25.89
Run #3	176.412	7.87	-0.093	25.91
Run #4	85.756	-4.16	0.030	25.93
Run #5	176.412	-8.17	0.095	25.89

AVERAGE C.G. HEIGHT 25.90

STATIC STABILITY FACTOR (SSF)

SSF = $T/(2 \times H)$ = AVERAGE TRACK/(2 x AVERAGE C.G. HEIGHT)

SSF 1.266

Chev. Silverado 4x4 - Driver

YEAR: 2001
 MAKE: Chevrolet
 MODEL: Silverado
 VIN: 1GCEK19V61E18####

DATE TESTED: 12/01/00
 VIMF TEST NO.: 876

BODY STYLE AND TRIM: LS 1500 4WD Extended Cab

LOAD: Driver

ENGINE SIZE AND TYPE: 4.8L V8

TRANSMISSION TYPE: Automatic

DRIVE: 4WD

DOORS: 4 Door

FUEL: Full

OPTIONAL EQUIPMENT:

TIRE TYPE: Goodyear Wrangler ST

TIRE SIZE: P245/75R16

TIRE PRESSURE FRONT: 35 psi

TIRE PRESSURE REAR: 35 psi

TRACK FRONT: 65.1 inches

TRACK REAR: 66.2 inches

AVERAGE TRACK: 65.7 inches

WHEELBASE: 144.0 inches

ROOF HEIGHT: 73.3 inches

GVWR 6400 lb

FRONT GAWR 3925 lb

REAR GAWR 3750 lb

LEFT FRONT WEIGHT 1650.4 lb

RIGHT FRONT WEIGHT 1439.2 lb

LEFT REAR WEIGHT 1027.0 lb

RIGHT REAR WEIGHT 1018.4 lb

TOTAL WEIGHT 5135.0 lb

C.G. LONGITUDINAL 57.36 inches (From Front Axle)

C.G. LATERAL -1.41 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A 64.90 inches

B 65.15 inches

C 65.20 inches

D 65.10 inches

Rear E 66.15 inches

F 66.25 inches

G 66.25 inches

H 66.30 inches

Wheelbase Measurements

Left Side 144.10 inches

Right Side 143.90 inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	-0.16	0.000	0.00
Run #2	85.756	4.08	-0.053	27.51
Run #3	161.922	7.68	-0.116	27.54
Run #4	85.756	-4.28	0.011	27.52
Run #5	161.922	-7.82	0.064	27.50

AVERAGE C.G. HEIGHT 27.52

STATIC STABILITY FACTOR (SSF)

SSF = $T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.193

Ford F-150 4x4 - Driver

YEAR: 2001
MAKE: Ford
MODEL: F-150
VIN: 1FTZF18211NA6####

DATE TESTED: 12/06/00
VIMF TEST NO.: 892

BODY STYLE AND TRIM: XLT Regular Cab

LOAD: Driver

ENGINE SIZE AND TYPE: 4.2L V6

TRANSMISSION TYPE: Automatic

DRIVE: 4WD

DOORS: 2 Door

FUEL: Full

OPTIONAL EQUIPMENT:

TIRE TYPE: Goodyear Wrangler RT/S

TIRE SIZE: P255/70R16

TIRE PRESSURE FRONT: 35 psi

TIRE PRESSURE REAR: 35 psi

TRACK FRONT: 65.1 inches

TRACK REAR: 65.5 inches

AVERAGE TRACK: 65.3 inches

WHEELBASE: 138.8 inches

ROOF HEIGHT: 75.7 inches

GVWR 6000 lb

FRONT GAWR 3600 lb

REAR GAWR 3500 lb

LEFT FRONT WEIGHT 1493.4 lb

RIGHT FRONT WEIGHT 1352.2 lb

LEFT REAR WEIGHT 967.1 lb

RIGHT REAR WEIGHT 949.1 lb

TOTAL WEIGHT 4761.8 lb

C.G. LONGITUDINAL 55.83 inches (From Front Axle)

C.G. LATERAL -1.09 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A 64.90 inches

B 65.10 inches

C 65.00 inches

D 65.20 inches

Rear E 65.50 inches

F 65.50 inches

G 65.50 inches

H 65.50 inches

Wheelbase Measurements

Left Side 138.80 inches

Right Side 138.70 inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	-0.02	0.000	0.00
Run #2	71.266	3.80	-0.035	29.07
Run #3	151.790	7.94	-0.096	29.18
Run #4	71.266	-3.77	0.019	28.99
Run #5	151.790	-7.88	0.087	29.03

AVERAGE C.G. HEIGHT 29.07

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.123

Chrysler PT Cruiser - Driver

YEAR: 2001
MAKE: Chrysler
MODEL: PT Cruiser
VIN: 3C8FY4BB21T55####

DATE TESTED: 11/13/00
VIMF TEST NO.: 844

BODY STYLE AND TRIM: Limited Edition

LOAD: Driver

ENGINE SIZE AND TYPE: 2.4L I4

TRANSMISSION TYPE: Automatic

DRIVE: FWD

DOORS: 4 Door

FUEL: Full

OPTIONAL EQUIPMENT: Sun Roof

TIRE TYPE: Goodyear Eagle LS

TIRE SIZE: P205/55R16

TIRE PRESSURE FRONT: 34 psi

TIRE PRESSURE REAR: 34 psi

TRACK FRONT: 58.1 inches

TRACK REAR: 57.9 inches

AVERAGE TRACK: 58.0 inches

WHEELBASE: 102.9 inches

ROOF HEIGHT: 62.9 inches

GVWR 4225 lb

FRONT GAWR 2200 lb

REAR GAWR 2025 lb

LEFT FRONT WEIGHT 1054.5 lb

RIGHT FRONT WEIGHT 989.7 lb

LEFT REAR WEIGHT 707.0 lb

RIGHT REAR WEIGHT 686.4 lb

TOTAL WEIGHT 3437.5 lb

C.G. LONGITUDINAL 41.69 inches (From Front Axle)

C.G. LATERAL -0.72 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A 58.10 inches

B 58.10 inches

C 58.20 inches

D 58.10 inches

Rear E 58.00 inches

F 57.80 inches

G 57.90 inches

H 57.90 inches

Wheelbase Measurements

Left Side 102.80 inches

Right Side 102.90 inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.05	0.000	0.00
Run #2	50.341	4.20	-0.032	23.00
Run #3	94.649	7.71	-0.069	23.02
Run #4	50.341	-4.06	0.024	22.98
Run #5	94.649	-7.56	0.067	22.95

AVERAGE C.G. HEIGHT 22.99

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.262

Honda Odyssey - Driver

YEAR: 2001
MAKE: Honda
MODEL: Odyssey
VIN: 2HKRL18701H51####

DATE TESTED: 12/05/00
VIMF TEST NO.: 888

BODY STYLE AND TRIM: EX Model
LOAD: Driver
ENGINE SIZE AND TYPE: 3.5L V6
TRANSMISSION TYPE: Automatic
DRIVE: FWD
DOORS: 4 Door
FUEL: Full

OPTIONAL EQUIPMENT:

TIRE TYPE: Michelin Symmetry 96T M+S
TIRE SIZE: P215/65R16

TIRE PRESSURE FRONT: 35 psi
TIRE PRESSURE REAR: 35 psi

TRACK FRONT: 66.3 inches
TRACK REAR: 66.2 inches
AVERAGE TRACK: 66.2 inches
WHEELBASE: 118.2 inches
ROOF HEIGHT: 68.4 inches

GVWR 5565 lb
FRONT GAWR 2775 lb
REAR GAWR 2840 lb

LEFT FRONT WEIGHT 1323.4 lb
RIGHT FRONT WEIGHT 1230.8 lb
LEFT REAR WEIGHT 978.6 lb
RIGHT REAR WEIGHT 944.9 lb
TOTAL WEIGHT 4477.7 lb

C.G. LONGITUDINAL 50.75 inches (From Front Axle)
C.G. LATERAL -0.93 inches (Negative Towards Driver's Side)

Track Width Measurements

	Front A	Front B	Front C	Front D	Rear E	Rear F	Rear G	Rear H
	66.30	66.20	66.30	66.20	66.20	66.20	66.20	66.20

Wheelbase Measurements

	Left Side	Right Side
	118.30 inches	118.00 inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.44	0.000	0.00
Run #2	40.209	4.13	-0.030	25.18
Run #3	84.517	8.02	-0.074	25.13
Run #4	40.209	-3.17	0.019	24.98
Run #5	84.517	-7.06	0.067	24.97

AVERAGE C.G. HEIGHT 25.06

STATIC STABILITY FACTOR (SSF)

$SSF = T / (2 \times H) = \text{AVERAGE TRACK} / (2 \times \text{AVERAGE C.G. HEIGHT})$

SSF 1.321

Mazda MPV - Driver

YEAR: 2001
MAKE: Mazda
MODEL: MPV
VIN: JM3LW28Y71017####

DATE TESTED: 12/08/00
VIMF TEST NO.: 898

BODY STYLE AND TRIM: LX Model
LOAD: Driver
ENGINE SIZE AND TYPE: 2.5L V6
TRANSMISSION TYPE: Automatic
DRIVE: FWD
DOORS: 4 Door
FUEL: Full
OPTIONAL EQUIPMENT: Roof Rack

TIRE TYPE: Yokohama Radial 376 94S M+S
TIRE SIZE: P205/65R15

TIRE PRESSURE FRONT: 35 psi
TIRE PRESSURE REAR: 35 psi

TRACK FRONT: 60.7 inches
TRACK REAR: 60.6 inches
AVERAGE TRACK: 60.7 inches
WHEELBASE: 111.8 inches
ROOF HEIGHT: 67.9 inches

GVWR 5077 lb
FRONT GAWR 2496 lb
REAR GAWR 2630 lb

LEFT FRONT WEIGHT 1195.5 lb
RIGHT FRONT WEIGHT 1071.7 lb
LEFT REAR WEIGHT 844.4 lb
RIGHT REAR WEIGHT 781.0 lb
TOTAL WEIGHT 3892.6 lb

C.G. LONGITUDINAL 46.68 inches (From Front Axle)
C.G. LATERAL -1.46 inches (Negative Towards Driver's Side)

Track Width Measurements

Front A	60.70	inches
B	60.70	inches
C	60.70	inches
D	60.70	inches
Rear E	60.50	inches
F	60.70	inches
G	60.60	inches
H	60.60	inches

Wheelbase Measurements

Left Side	111.80	inches
Right Side	111.80	inches

VIMF C.G. HEIGHT MEASUREMENT RESULTS

	Applied Weight (lb)	Platform Angle (deg)	Relative Motion (inches)	C.G. Height (inches)
Run #1	0.000	0.31	0.000	0.00
Run #2	40.209	4.14	-0.059	25.26
Run #3	84.517	8.07	-0.095	25.29
Run #4	40.209	-3.23	-0.003	24.92
Run #5	84.517	-7.12	0.048	24.88

AVERAGE C.G. HEIGHT 25.09

STATIC STABILITY FACTOR (SSF)

SSF = $T / (2 \times H)$ = AVERAGE TRACK / (2 x AVERAGE C.G. HEIGHT)

SSF 1.209